

Abstract

A micro lens, or an array of micro lenses, can be formed without requiring the etching of a mesa into the substrate by deposited directly on the substrate, without any mesa each of the individual portions of the substance to be melted. The whole substrate and the portions are then conformally coated with a very thin layer of a substance, typically an adhesion promoter, e.g., hexamethyldisilazane (HMDS). The entire coated wafer is then subject to conditions which cause each of the individual substance portions to flow into a lens shape. A lens shape is achieved without requiring a mesa because the layer of adhesion promoter prevents the flowing substance from spilling in an undesired manner over the surface of the substrate.